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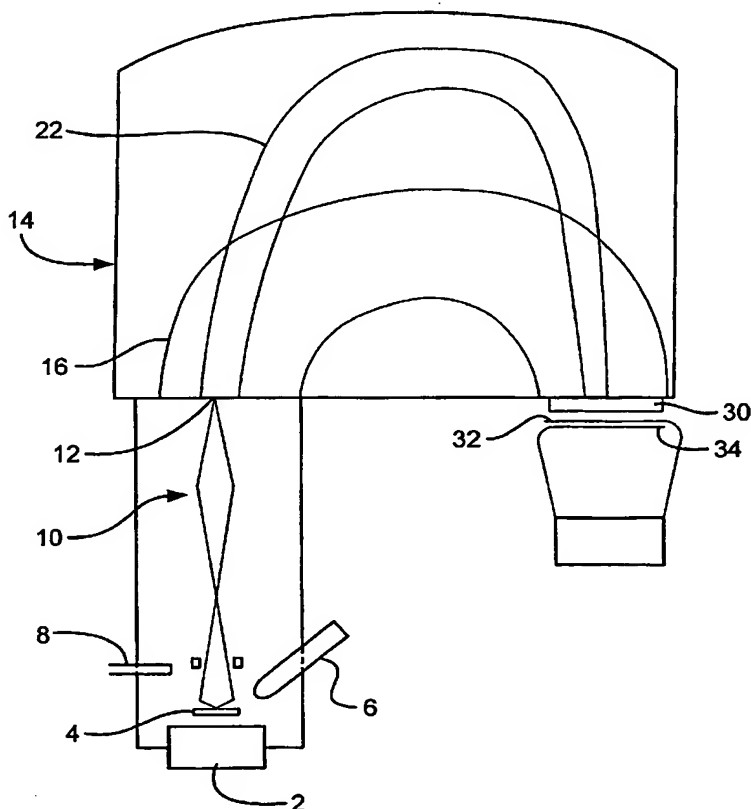
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(54) Title: CHARGED PARTICLE SPECTROMETER AND DETECTOR THEREFOR



(57) Abstract: A charged particle (e.g. photoelectron) spectrometer is operable in a first mode to produce an energy spectrum relating to the composition of a sample being analysed, and in a second mode to produce a charged particle image of the surface of the sample being analysed. A detector is used to detect charged particles produced in both modes of operation. A method of operation of the spectrometer includes the step of selecting which of said first and second modes to use and the detector being operated accordingly.

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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
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# INTERNATIONAL SEARCH REPORT

ional Application No

PCT/GB 03/04750

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01J49/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 170 778 A (PHYSICAL ELECTRONICS IND INC) 9 January 2002 (2002-01-09)	1-3, 14-16
Y	column 11, last paragraph	4,17
A		5,18-26
Y	HATFIELD J V ET AL: "An integrated multichannel charged-particle sensing system" SENSORS AND ACTUATORS A, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 54, no. 1-3, 1 June 1996 (1996-06-01), pages 777-781, XP004077965 ISSN: 0924-4247 figure 4	4,17

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☒ Patent family members are listed in annex.

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